

Professional Series

## Application:

Small room, cinema sound systems.

## Key Features:

- ▶ Frequency Range: 30 Hz to 20 kHz (-10 dB)
- ▶ Sensitivity, 98 dB
- ▶ Power Capacity: 300 watts passive, 50 (HF)/600 (LF) watts bi-amp
- ▶ Low frequency transducer: One 380 mm (15 in.) low frequency driver
- ▶ High frequency transducer: 25 mm (1 in.) horn throat diameter, 44 mm (1.75 in.) pure titanium diaphragm compression driver
- ▶ Flat power response 100° X 100° Bi-Radial® horn
- ▶ Operable in bi-amp or passive mode
- ▶ Includes adjustable bracket for horn aiming
- ▶ Shallow profile cabinet minimizes behind-screen space requirements
- ▶ THX®-approved for THX system installations

The JBL 3678 cinema loudspeaker system provides natural sound quality for music and dialog in small cinema applications. It can be used in either a passive mode, using its built-in network, or in a bi-amplified system. Enclosure design is extremely shallow in depth (292 mm; 11.5 inches), to minimize the space required behind the screen.

The high-frequency section consists of the JBL 2426 pure titanium compression driver and 2342 Bi-Radial horn. The titanium diaphragm of the 2426 ensures the natural sound and reliability mandatory in today's motion picture theatres. The 2342 horn provides smooth, even coverage throughout the auditorium.

The low frequency section uses a single JBL 2226H driver. This 600



watt driver features JBL-patented Symmetrical Field Geometry (SFG) and Vented Gap Cooling™ technology for high power handling with minimal power compression.

The newly-designed passive crossover network is optimized to provide seamless transition between driver components, for clear, articulate dialog, and high fidelity music reproduction. Operation in a bi-amplified system is easily achieved by simple re-configuration of the jumper connectors at the network/connector panel.

In bi-amplified mode, the 3678 is THX-approved for THX certified theatres no larger than 1,274 m<sup>3</sup> (45,000 ft<sup>3</sup>) and screen-to-last row distances no greater than 12.2 m (40 ft.).

## System Specifications:

System:

Frequency range (-10 dB):	30 Hz to 20 kHz
Frequency response (± 3 dB):	45 Hz to 12 kHz
Power capacity <sup>1</sup> (passive):	300 W
Power capacity (bi-amp):	HF: 50 W LF: 600 W
Sensitivity:	98 dB
Nominal impedance:	8 ohms
Crossover Frequency:	1 kHz
Nominal coverage:	90° horizontal, 90° vertical
Half-space reference efficiency:	3.3%
Maximum acoustic power output (sine wave input)	8 acoustic watts
System Polarity:	Positive voltage to RED produces forward cone motion
Input connectors:	Barrier strip screw terminals
Net system weight:	41 kg (90 lbs)
Shipping weight:	44 kg (98 lbs)
Dimensions (H x W x D):	406 (w/horn) x 651 x 292 mm 40.125 (/horn) x 25.625 x 11.5 inches

<sup>1</sup>Rating based on test signal of continuous pink noise, per IEC spectrum for two hours duration.

JBL continually engages in research related to product improvement. Some materials, production methods and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.

# ▶ 3678 Cinema Loudspeaker System

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